

ABSTRACT

5       A polyurethane elastic fiber, containing inorganic  
compound particles that have an average particle size of  
0.5 to 5 mm and that show a refractive index of 1.4 to  
1.6, having at least one protruded portion that has a  
maximum width of 0.5 to 5  $\mu\text{m}$ , in the fiber surface, per  
120- $\mu\text{m}$  length in the fiber axis direction.

7.       **(Original)**     A process for producing a polyurethane elastic fiber, which comprises finely dispersing inorganic compound particles having an average particle size of 0.5 to 5  $\mu\text{m}$  and showing a refractive index of 1.4 to 1.6 in an amide-type polar solvent, and dry spinning a polyurethane spinning dope containing from 0.05 to 10% by weight, based on the polyurethane, of the inorganic compound particles.
8.       **(New)**     The polyurethane elastic fiber according to claim 2, wherein the inorganic compound particles are porous silica having a specific surface area of 100 to 800  $\text{m}^2/\text{g}$ .
9.       **(New)**     The polyurethane elastic fiber according to claim 8, wherein the coefficient of dynamic friction thereof against a knitting needle is from 0.2 to 0.6.
10.      **(New)**     The polyurethane elastic fiber according to claim 9, wherein the coefficient of static friction thereof against the polyurethane elastic fiber is from 0.3 to 0.6.
11.      **(New)**     The polyurethane elastic fiber according to claim 10, wherein the change with time (after allowing the polyurethane elastic fiber to stand for 16 hours at 70°C) in the coefficient of static friction thereof against a nylon yarn is 0.1 or less.